

New York State Department of Transportation

Yellow Flag NB23U4W022

By: Malav Shah
Flag Date: May 24, 2023

Superseding Information:
No Flags Superseded

Structure Information

BIN: 1065318 *Region:* 11 - NEW YORK CITY
Feature Carried: 278I278IX2M23027 *County:* KINGS
Feature Crossed: 6TH AVENUE *Political Unit:* City of NEW YORK
Orientation: 8 - NORTHWEST *Approximate Year Built:* 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Muhammad Mubeen *Date:* May 26, 2023 3:00:00 PM
Of: NYSDOT Region 11

Signature Information

Signature: Malav Shah, P.E. 106620-1 *Date:* June 21, 2023
Reviewed By: Robert Kemp *Date:* June 21, 2023

Attachments: 7

Flagged Elements

Parent Element	Element	Total Quantity	Unit
<i>Span Number : 239</i>			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

Flagged Condition Description

This Yellow Flag No. NB23U4W022 is a new flag.

Location: Span 239 Girder G19 at Pier 239.

The right connection angle of Girder G19 at the connection to Pier 239 exhibits a full height vertical corrosion crack for 1/16" - 1/8" wide in the connecting leg.

In addition, the left stiffener connection angle of Girder G19 to Pier 239 exhibits:

- 1.Up to 1/8" section loss (1-1/2"W x up to 6"H) in the connecting leg portion, adjacent to the vertical edge of the girder web end,
- 2.1/8" - 3/16" section loss (4-1/2"W x up to 1"H) in the top portion of the connecting leg portion, above the girder web.

Girder Web has repair plates on both faces in good condition.

Notes:

- 1.The affected member, Girder G19 is a load path redundant steel girder, located under the deck in the roadway, approximately 12" off the edge of curb line/safety walk.
- 2.The adjacent Girder G18 has repair plates in good condition.
- 3.The adjacent Stringer S2, approximately 24" on center has up to 1/8" section loss on both faces of web and up to 1/8" section loss with holes in bottom flange angles.
4. The previous 2021 biennial inspection at this location has following description of defect:
Girder G19 beam end exhibits up to 20% section loss at the right side and a 5" L x 1/8" D gouge at the upper section of the right connection angle. The cover plate end weld is missing for the full width.
- 4.A double lane closure on 3rd Avenue Westbound with a 35' bucket truck is required to access the flagged location.

Flag Photographs

Photo Number: 1

Photo Filename: NB23U4W022 LOCATION PLAN.JPG

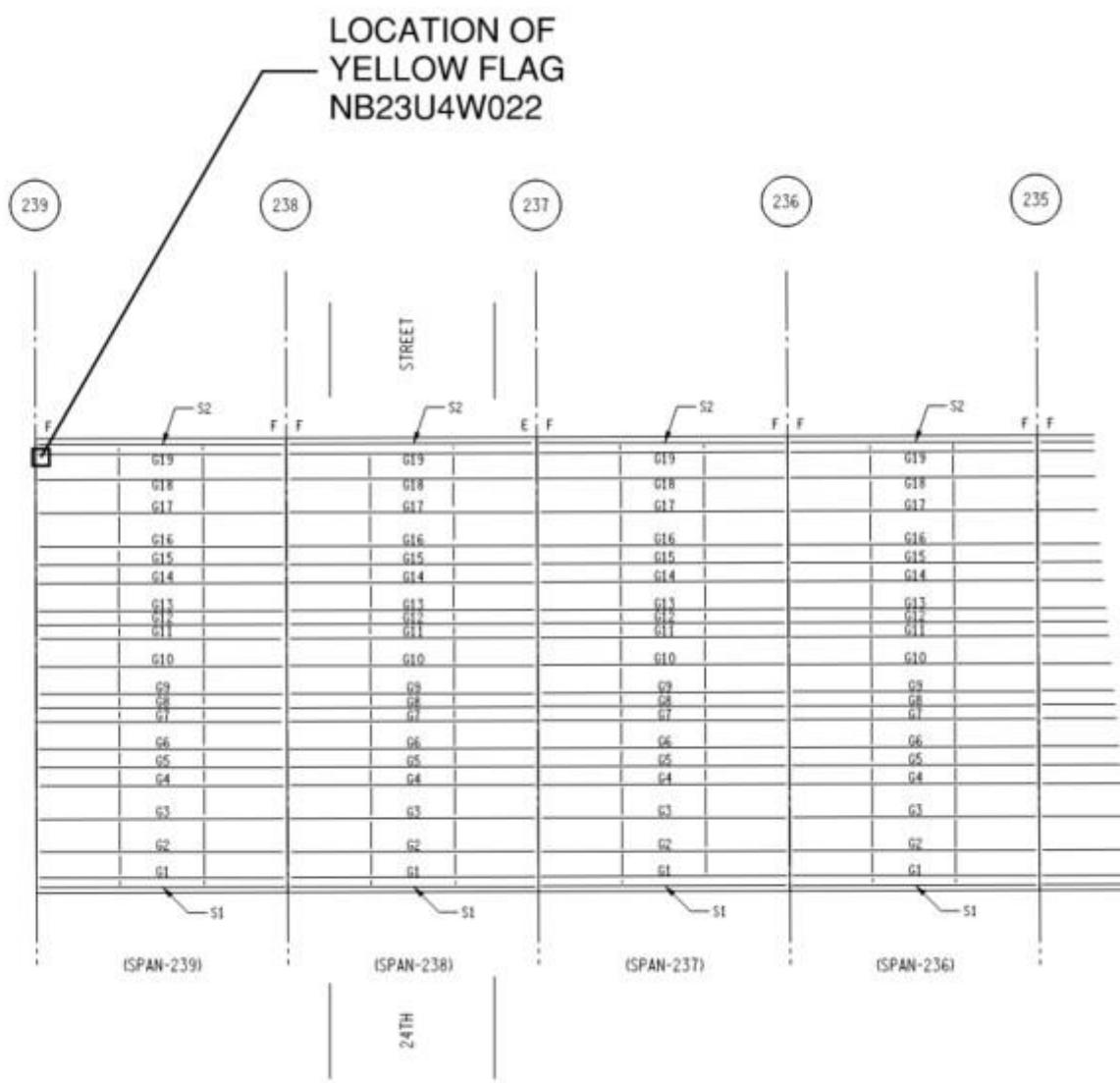
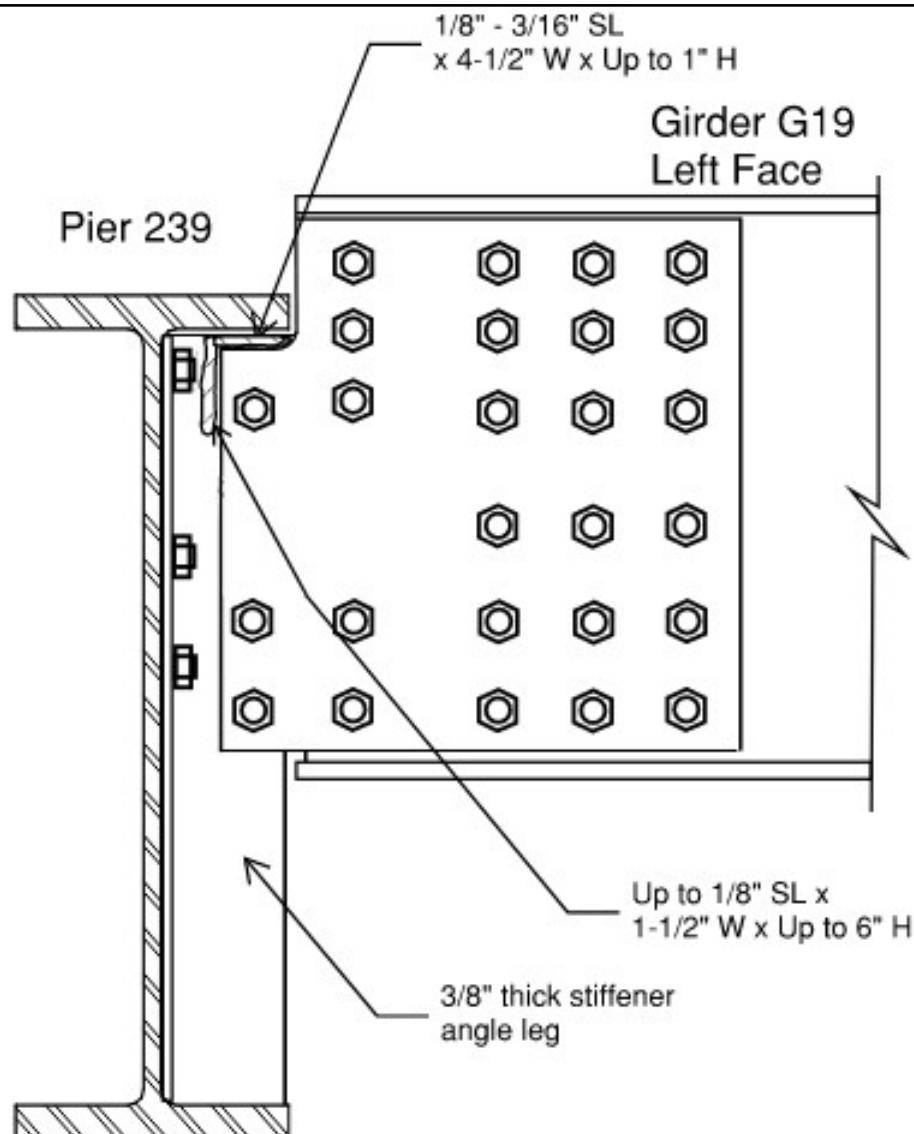
**Attachment Description: FLAG LOCATION PLAN**

Photo Number: 2

Photo Filename: NB23U4W022 CONDITION SKETCH 1.JPG



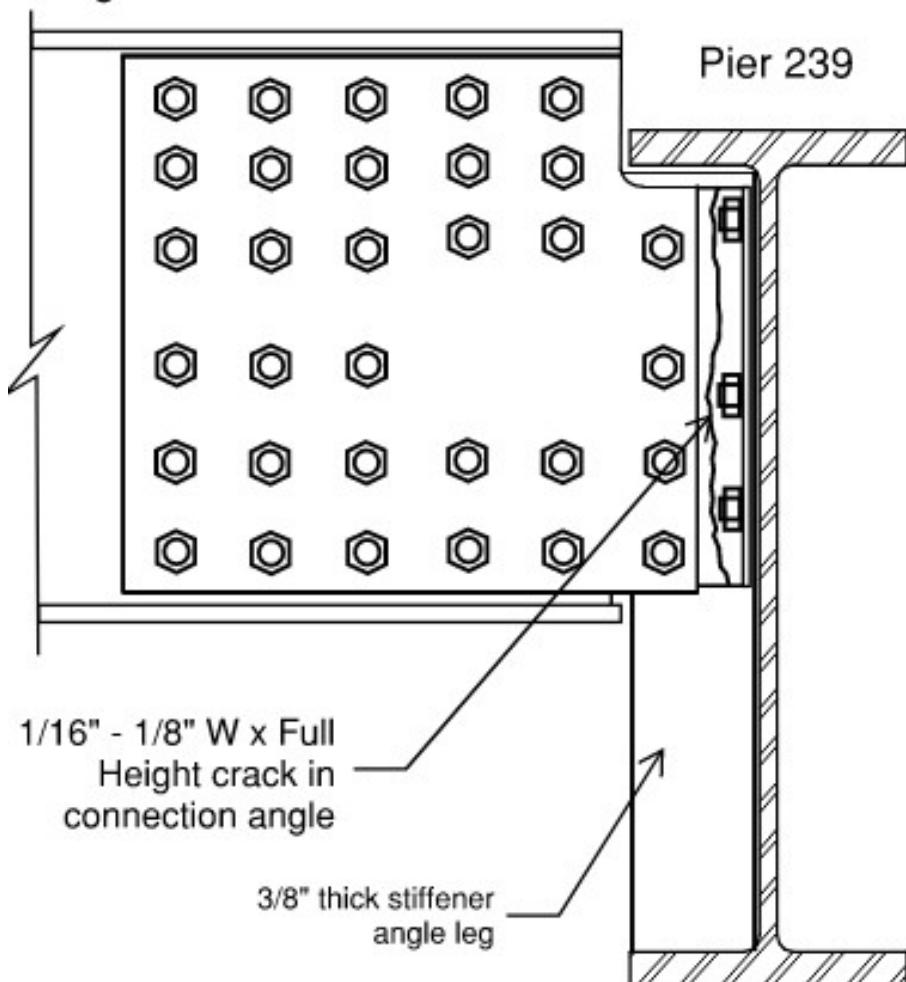
SKETCH FOR YELLOW FLAG # NB23U4W022
SPAN 239, GIRDER G19 AT PIER 239
(LOOKING RIGHT)
N.T.S

Attachment Description: FLAG CONDITION SKETCH 1

Photo Number: 3

Photo Filename: NB23U4W022 CONDITION SKETCH 2.JPG

Girder G19
Right Face

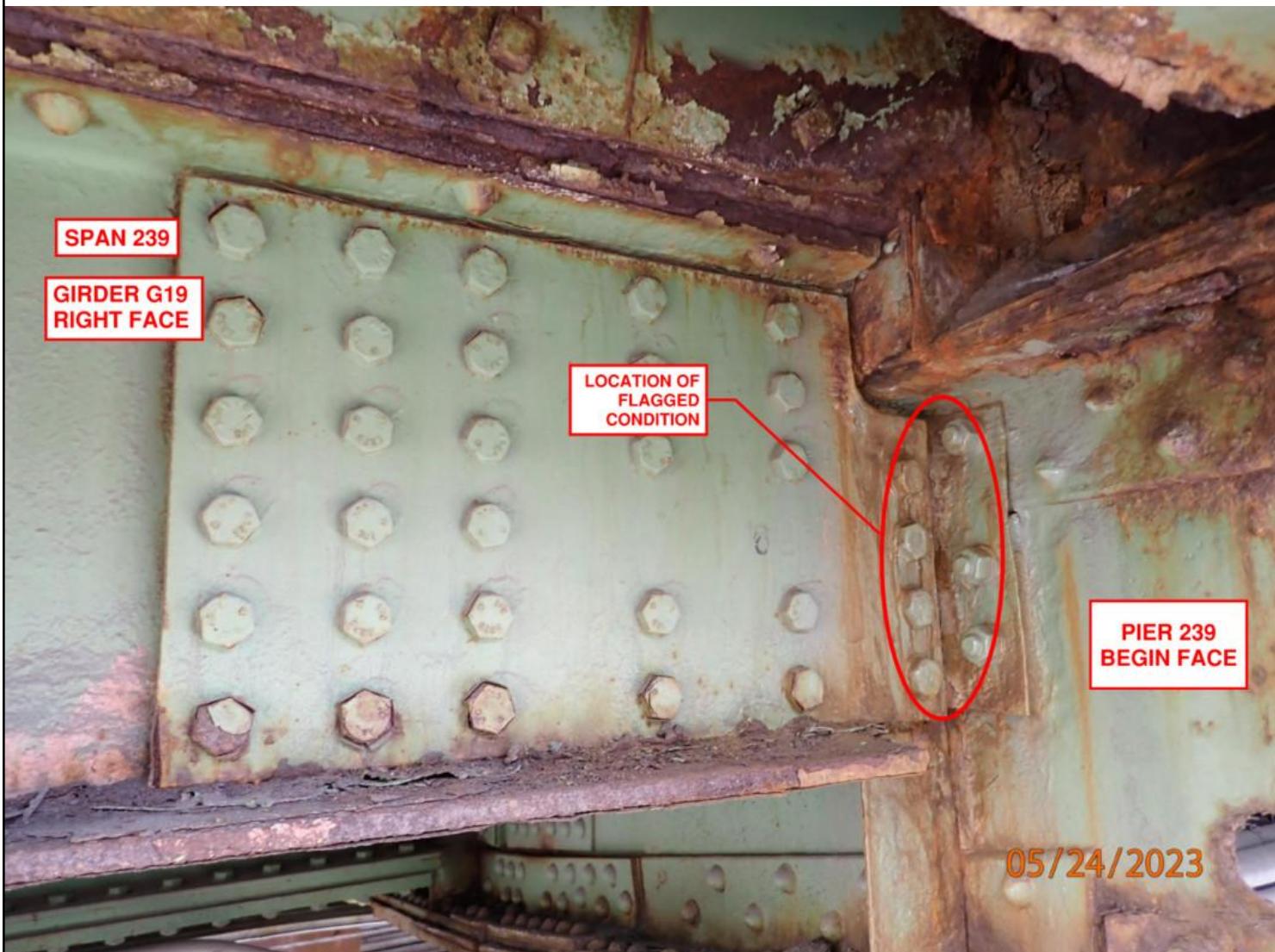


SKETCH FOR YELLOW FLAG # NB23U4W022
SPAN 239, GIRDER G19 AT PIER 239
(LOOKING LEFT)
N.T.S

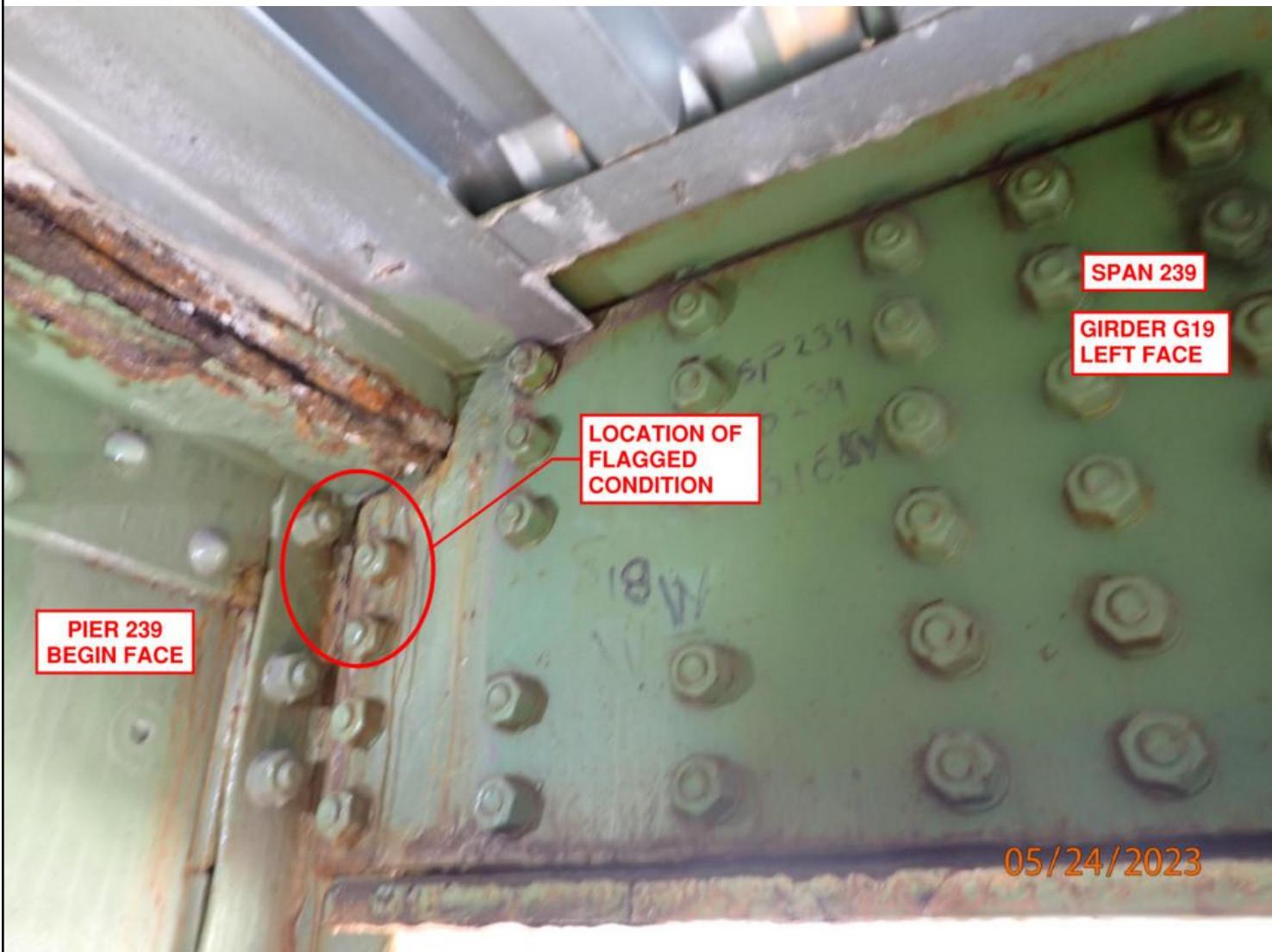
Attachment Description: FLAG CONDITION SKETCH 2

Photo Number: 4

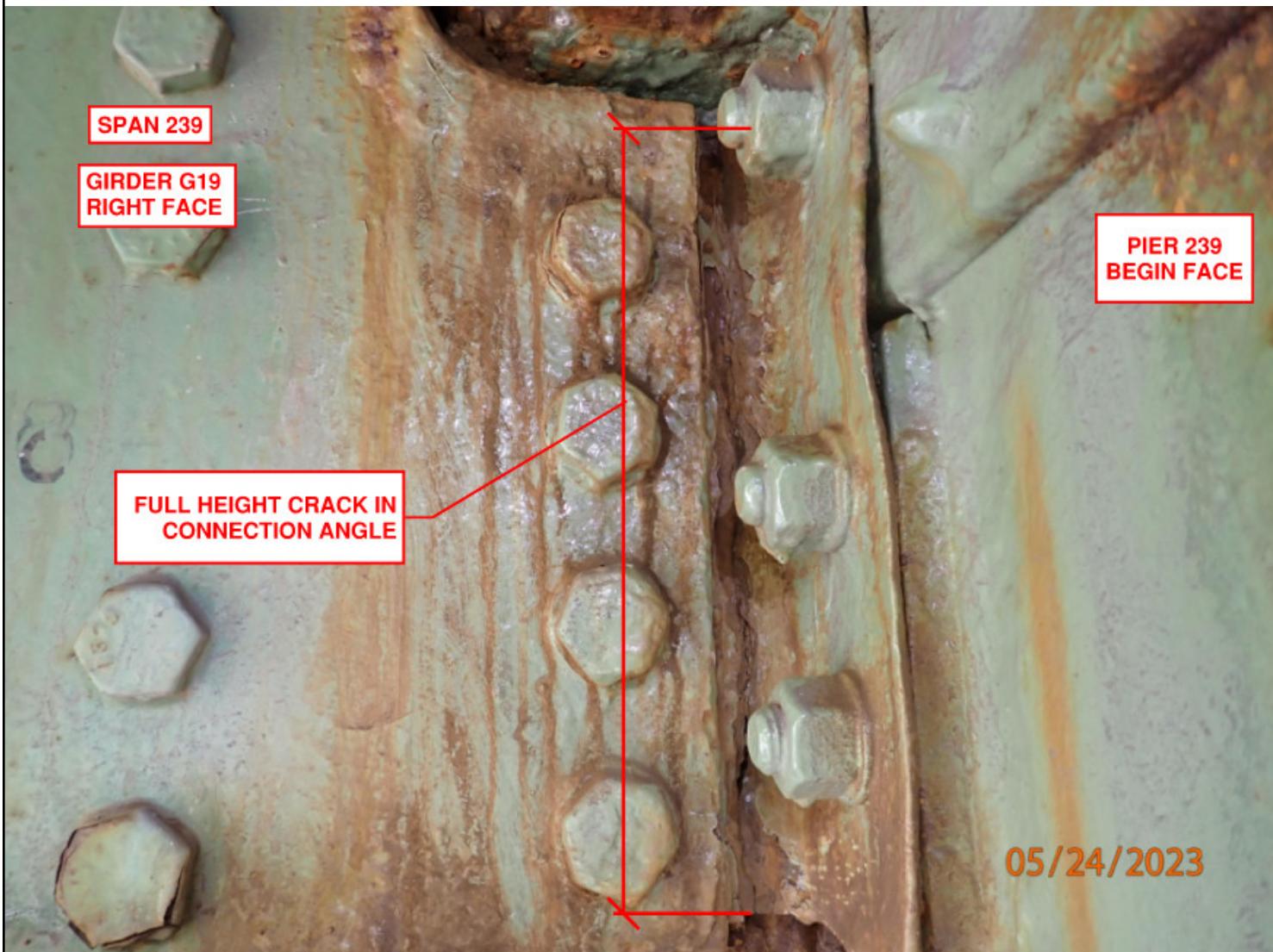
Photo Filename: P5243290.JPG



Attachment Description: General View of Flag Location on Right Face of Girder G19. Looking End - Left

Photo Number: **5**Photo Filename: **P5243294.JPG**

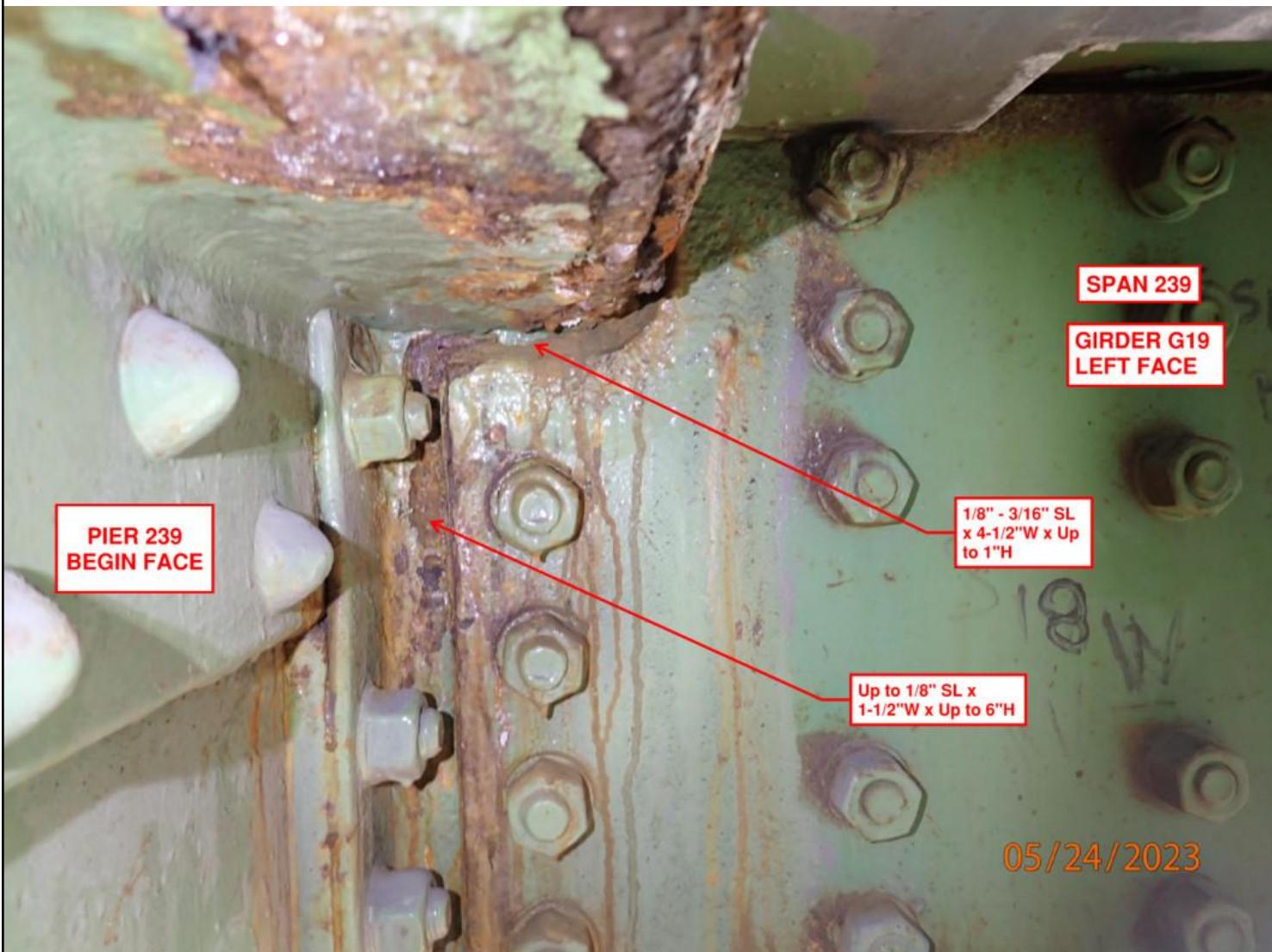
Attachment Description: General View of Flag Location on Left Face of Girder G19. Looking End - Right

Photo Number: **6**Photo Filename: **P5243293.JPG**

Attachment Description: The right connection angle of Girder G19 at the connection to Pier 239 exhibits a full height vertical corrosion crack for $1/16"$ - $1/8"$ wide in the connecting leg. Looking Left.

Photo Number: 7

Photo Filename: P5243298.JPG



Attachment Description: Stiffener angle has up to 1/8" section loss (1-1/2"W x up to 6"H) in the connecting leg portion, adjacent to the vertical edge of the girder web end,. There is 1/8" - 3/16" section loss (4-1/2"W x up to 1"H) in the top portion of the connecting leg portion, above the girder web. Looking Right.